

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Inventors: Iqbal Ahmed *et al.*

Patent No. 7,163,969 B2

Issued: January 16, 2007

Serial No. 10/685,080

Filed: October 14, 2003

For: **SUPERABSORBENT POLYMER AQUEOUS PASTE AND COATING**

Certificate of Correction Branch

Commissioner for Patents

P.O. Box 1450

Alexandria, VA 22313-1450

Request for Certificate of Correction Under 37 C.F.R. 1.322

Dear Sir:

Applicants request that the attached Certificate of Correction be issued to correct typographical errors in the above-identified patent. No new matter has been added to the patent and reexamination is not required.

As the errors appear to be on the part of the Office, Applicants believe that no fees are due. If, however, fees for this paper are required, the Commissioner is hereby authorized to charge them to Deposit Account 502190.

Respectfully submitted,

/Philip P. McCann/

Philip P. McCann

Registration No. 30,919

Smith Moore LLP

P.O. Box 21927

Greensboro, NC 27420

(336) 378-5302

Date: April 27, 2007

File No. 5003073.046US1

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 1 of 3

PATENT NO. : 7,163,969 B2
APPLICATION NO.: 10/685,080
ISSUE DATE : January 16, 2007
INVENTOR(S) : Iqbal Ahmed *et al.*

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

The Office omitted Claim 2 from the claim listing and inserted Claim 8 in the issued patent. Please substitute the following corrected claim listing for the claims as they appear in the issued patent:

1. An aqueous superabsorbent polymer paste comprising a blend of
 - a) from about 1 to about 5 wt % of superabsorbent polymer particles, and
 - b) from about 95 to about 99 wt % of an aqueous water-soluble polymer solution comprising from about 0.5 to about 5% solid level.
2. An aqueous superabsorbent polymer paste of claim 9 characterized in that the viscosity of the aqueous superabsorbent polymer paste will be from about 1000 mPa•s and to about 35,000 mPa•s.
3. An aqueous superabsorbent polymer paste of claim 1 characterized in that it has an absorption capacity of 15 g/g dry weight or more.
4. An aqueous superabsorbent polymer paste of claim 1 characterized in that it has an absorption capacity of 20 g/g dry weight or more.
5. An aqueous superabsorbent polymer paste of claim 1 characterized in that it has a paste expansion in tap water of 40 ml or more.
6. An aqueous superabsorbent polymer paste of claim 1 characterized in that it has a paste expansion in 0.9% saline composition of 20 ml or more.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Smith Moore LLP
Post Office Box 21927
Greensboro, NC 27420

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. **DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

**UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTION**Page 2 of 3

PATENT NO. : 7,163,969 B2
APPLICATION NO.: 10/685,080
ISSUE DATE : January 16, 2007
INVENTOR(S) : Iqbal Ahmed *et al.*

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

7. An aqueous superabsorbent polymer paste of claim 1 characterized in that it has a paste expansion in deionized water of 70 ml or more.

8. An aqueous superabsorbent polymer paste comprising
a) a composition comprising from about 55 to about 99.9 wt.% of polymerizable unsaturated acid group containing monomers; and from about 0.001 to about 5.0 wt.% of internal crosslinking agent; wherein the composition has a degree of neutralization of more than about 20%; and
b) from about 95 to about 99 wt % of an aqueous water-soluble polymer solution having from about 0.5 to about 5% solid level.

9. An aqueous superabsorbent paste of claim 8 characterized in that the viscosity of the aqueous superabsorbent polymer paste will be from about 1000 mPa•s and to about 35,000 mPa•s.

10. A method of making an aqueous superabsorbent polymer paste, said method comprising
a) preparing an aqueous solution of superabsorbent polymer, which is formed from at least one monomer, where the pre-superabsorbent polymer is capable upon being subjected to heating of becoming a superabsorbent polymer; and
b) preparing a paste by thoroughly blending from about 1 to about 5 wt % of the superabsorbent polymer with from about 95 to about 99 wt % of an aqueous water-soluble polymer solution comprising from about 0.5 to about 5% solid level.

11. A method of claim 10 characterized in that the thermal subsequent treatment is effected within a range of from about 75°C to about 200°C when coating on a substrate.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Smith Moore LLP
Post Office Box 21927
Greensboro, NC 27420

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.

UNITED STATES PATENT AND TRADEMARK OFFICE
CERTIFICATE OF CORRECTIONPage 3 of 3

PATENT NO. : 7,163,969 B2
APPLICATION NO.: 10/685,080
ISSUE DATE : January 16, 2007
INVENTOR(S) : Iqbal Ahmed *et al.*

It is certified that an error appears or errors appear in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

12. An aqueous superabsorbent polymer paste of claim 8 characterized in that it has an absorption capacity of 15 g/g dry weight or more.

13. An aqueous superabsorbent polymer paste of claim 8 characterized in that it has an absorption capacity of 20 g/g dry weight or more.

14. An aqueous superabsorbent polymer paste of claim 8 characterized in that it has a paste expansion in tap water of 40 ml or more.

15. An aqueous superabsorbent polymer paste of claim 8 characterized in that it has a paste expansion in 0.9% saline composition of 20 ml or more.

16. An aqueous superabsorbent polymer paste of claim 8 characterized in that it has a paste expansion in deionized water of 70 ml or more.

MAILING ADDRESS OF SENDER (Please do not use customer number below):

Smith Moore LLP
Post Office Box 21927
Greensboro, NC 27420

This collection of information is required by 37 CFR 1.322, 1.323, and 1.324. The information is required to obtain or retain a benefit by the public which is to file (and by the USPTO to process) an application. Confidentiality is governed by 35 U.S.C. 122 and 37 CFR 1.14. This collection is estimated to take 1.0 hour to complete, including gathering, preparing, and submitting the completed application form to the USPTO. Time will vary depending upon the individual case. Any comments on the amount of time you require to complete this form and/or suggestions for reducing this burden, should be sent to the Chief Information Officer, U.S. Patent and Trademark Office, U.S. Department of Commerce, P.O. Box 1450, Alexandria, VA 22313-1450. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: **Attention Certificate of Corrections Branch, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450.**

If you need assistance in completing the form, call 1-800-PTO-9199 and select option 2.